

Title (en)
ADHESIN-OLIGOSACCHARIDE CONJUGATE VACCINE FOR -i(HAEMOPHILUS INFLUENZAE).

Title (de)
ADHESIN-OLIGOSACCHARID-IMPFSTOFFKONJUGATE FÜR -i(HAEMOPHILUS INFLUENZA).

Title (fr)
VACCIN CONJUGUE ADHESINE-OLIGOSACCHARIDE CONTRE -i(HAEMOPHILUS INFLUENZAE).

Publication
EP 0565590 A4 19950705 (EN)

Application
EP 92902826 A 19911220

Priority
• US 63169890 A 19901221
• US 9109693 W 19911220

Abstract (en)
[origin: WO9210936A1] Disclosed herein are immunogenic polysaccharide-H. influenzae adhesin protein conjugates, a purified H. influenzae adhesin protein and related proteins and polypeptides, DNA useful for producing the proteins, synthetic polyribosylribitol phosphate (PRP) oligosaccharides and intermediates useful for their synthesis, and methods of making and using these materials. The conjugates comprise a PRP fragment, preferably a synthetic oligosaccharide, coupled to an H. influenzae adhesin protein. The invention further comprises purified H. influenzae adhesin proteins and novel PRP oligosaccharides. The invention also comprises methods of producing these materials and using them in a vaccine to protect humans and other mammals against H. influenzae infection.

IPC 1-7
A01N 43/04; A61K 39/02; A23J 1/00; C07H 15/12; C12P 19/34; C12P 21/06; C12P 21/04

IPC 8 full level
A61K 39/145 (2006.01); **A61K 39/102** (2006.01); **A61P 31/12** (2006.01); **A61P 31/16** (2006.01); **C07H 15/04** (2006.01); **C07H 15/08** (2006.01); **C07H 15/18** (2006.01); **C07K 1/00** (2006.01); **C07K 1/113** (2006.01); **C07K 1/22** (2006.01); **C07K 14/00** (2006.01); **C07K 14/11** (2006.01); **C07K 14/195** (2006.01); **C07K 14/285** (2006.01); **C07K 14/41** (2006.01); **C07K 14/705** (2006.01); **C07K 19/00** (2006.01); **C12N 1/21** (2006.01); **C12N 15/09** (2006.01); **C12P 21/00** (2006.01); **C12P 21/04** (2006.01); **C12R 1/19** (2006.01)

CPC (source: EP)
A61K 39/102 (2013.01); **A61P 31/12** (2017.12); **A61P 31/16** (2017.12); **C07H 15/04** (2013.01); **C07H 15/08** (2013.01); **C07H 15/18** (2013.01); **C07K 14/285** (2013.01); **A61K 2039/6068** (2013.01); **A61K 2039/627** (2013.01)

Citation (search report)
• [XD] EP 0276516 A2 19880803 - NEDERLANDEN STAAT [NL]
• [A] WO 8606635 A1 19861120 - BIOTECH AUSTRALIA PTY LTD [AU]
• [AP] WO 9106652 A1 19910516 - CONNAUGHT LAB [CA], et al
• [XD] EP 0320942 A2 19890621 - AMERICAN CYANAMID CO [US]
• [X] LAVAL CHAN, ET AL: "A NEW APPROACH TO THE SYNTHESIS OF A DIMERIC FRAGMENT OF THE CAPSULAR POLYSACCHARIDE OF HAEMOPHILUS INFLUENZA TYPE B.", TETRAHEDRON LETTERS, vol. 29, no. 33, OXFORD GB, pages 4049 - 4052
• [X] LAVAL CHAN: "SYNTHESIS OF OLIGOMERS OF THE CAPSULAR POLYSACCHARIDE OF THE HAEMOPHILUS INFLUENZA TYPE B BACTERIA.", TETRAHEDRON, (INCL TETRAHEDRON REPORTS), vol. 46, no. 1, OXFORD GB, pages 151 - 162
• [A] DEBRA, K, LEITH ET AL: "PURIFICATION OF A MYCOPLASMA PNEUMONIA ADHESIN BY MOAB AFFINITY CHROMATOGRAPHY.", J. BACTERIOL., vol. 157, no. 2, pages 678 - 680
• [X] ZHI YUAN WANG ET AL: "SYNTHESIS OF FRAGMENTS OF THE CAPSULAR POLYSACCHARIDE OF H. INFLEUNZA TYPE B.", TETRAHEDRON LETTERS, vol. 29, no. 13, OXFORD GB, pages 1525 - 1528
• [X] P. HOOGERHOUT ET AL: "SYNTHESIS OF THE CAPSULAR POLYSACCHARIDE OF H. INFLUENZA TYPE B, COMPRISING TWO OR THREE REPEATING UNITS.", TETRAHEDRON LETTERS, vol. 28, OXFORD GB, pages 1553 - 1556
• [XD] C.J.J. ELIE ET AL: "SYNTHESIS OF FRAGMENTS OF THE CAPSULAR POLYSACCHARIDE OF HAEMOPHILUS INFLUENZA TYPE B. PART III A SOLID-PHASE SYNTHESIS OF A SPACER-CONTAINING RIBOSYLRIBITOL PHOSPHATE HEXAMER.", RECUEIL DES TRAVAUX CHIMIQUES DES PAYS-BAS, vol. 108, AMSTERDAM NL, pages 219 - 223
• [AP] BOONS, G. J. P. H. ET AL: "Preparation of a well-defined sugar-peptide conjugate: a possible approach to a synthetic vaccine against Neisseria meningitidis", BIOORG. MED. CHEM. LETT. (1991), 1(6), 303-8 CODEN: BMCLE8;ISSN: 0960-894X
• See references of WO 9210936A1

Designated contracting state (EPC)
AT CH DE DK ES FR GB IT LI MC NL SE

DOCDB simple family (publication)
WO 9210936 A1 19920709; AT E176989 T1 19990315; CA 2098598 A1 19920622; DE 69130955 D1 19990408; DE 69130955 T2 19990701; DK 0565590 T3 19990927; EP 0565590 A1 19931020; EP 0565590 A4 19950705; EP 0565590 B1 19990303; ES 2131066 T3 19990716; JP 3330935 B2 20021007; JP H06508346 A 19940922

DOCDB simple family (application)
US 9109693 W 19911220; AT 92902826 T 19911220; CA 2098598 A 19911220; DE 69130955 T 19911220; DK 92902826 T 19911220; EP 92902826 A 19911220; ES 92902826 T 19911220; JP 50297992 A 19911220